

## INTERNATIONAL SEARCH REPORT

Int'l	Application No
PCT/GB 02/05927	

A. CLASSIFICATION OF SUBJECT MATTER
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IPC 7 A61K41/00
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According to International Patent Classification (IPC) or to both national classification and IPC
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B. FIELDS SEARCHED
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Minimum documentation searched (classification system followed by classification symbols)
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IPC 7 A61K
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
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EMBASE, BIOSIS, CHEM ABS Data, EPO-Internal, MEDLINE
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C. DOCUMENTS CONSIDERED TO BE RELEVANT
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Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 34196 A (BRANDSCH MATTHIAS ;FRANK WILLY (DE); ARNOLD MANFRED (DE); FLEIG WO) 17 May 2001 (2001-05-17) claims 1,5,10,14,16-18 ---	1-53
X	WO 00 44682 A (UNIV MISSOURI) 3 August 2000 (2000-08-03) claims 1,8,9 ---	1-53 -/-

<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.
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<input checked="" type="checkbox"/> Patent family members are listed in annex.
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## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search
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26 March 2003
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Date of mailing of the International search report
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04/04/2003
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Name and mailing address of the ISA
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## INTERNATIONAL SEARCH REPORT

1st Application No  
PCT/GB 02/05927

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category	Citation of document, with indication, where appropriate, of the relevant passages	
X	TOKUMITSU H ET AL: "CHITOSAN-GADOPENTETIC ACID COMPLEX NANOPARTICLES FOR GADOLINIUM NEUTRON-CAPTURE THERAPY OF CANCER: PREPARATION BY NOVEL EMULSION-DROPLET COALESCENCE TECHNIQUE AND CHARACTERIZATION" PHARMACEUTICAL RESEARCH, NEW YORK, NY, US, vol. 16, no. 12, 1999, pages 1830-1835, XP000951445 ISSN: 0724-8741 abstract; figure 1 ---	1
X	WO 00 45826 A (UNIV MISSOURI) 10 August 2000 (2000-08-10) page 4, line 30 -page 5, line 1; claims 1,24,25 ---	1
X	LAWACZECK R ET AL: "GADOLINIUM NEUTRON CAPTURE THERAPY (GDNCT) WITH MRI CONTRAST MEDIA IN VITRO STUDIES" CANCER NEUTRON CAPTURE THERAPY, XX, XX, 1996, pages 859-864, XP000951499 abstract ---	1,37-42
X	US 5 443 813 A (HAINFELD JAMES F) 22 August 1995 (1995-08-22)	1-53
Y	column 7, line 49 - line 51; claims 1,5 column 8, line 42 - line 59 column 9, line 4 - line 20 column 10, line 9 - line 11 ---	1-53
X	DATABASE CA 'Online' CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; FUKUMORI, YOSHINOBU ET AL: "Nano-particulate design and preparation for targeting and controlled release of drugs" retrieved from STN Database accession no. 135:127058 XP002224876 abstract & INTERNATIONAL CONFERENCE ON PROCESSING MATERIALS FOR PROPERTIES, PROCEEDINGS, 2ND, SAN FRANCISCO, CA, UNITED STATES, NOV. 5-8, 2000 (2000) 453-458. EDITOR(S): MISHRA, BRAJENDRA; YAMAUCHI, CHIKABUMI. PUBLISHER: MINERALS, METALS & MATERIALS SOCIETY, WAR, ---	1-53
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## INTERNATIONAL SEARCH REPORT

In national Application No  
PCT/GB 02/05927

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	THOMAS J ET AL: "Dodeca(carboranyl)-substituted closomers: toward unimolecular nanoparticles as delivery vehicles for BNCT." CHEM COMMUN (CAMB), (2001 SEP 21) (18) 1884-5., XP002224874 abstract ---	1-53
Y	ALI O. SEZER ET AL.: "Chemical vapor deposition of boron carbide." MATERIALS SCIENCE AND ENGINEERING, vol. B79, 2001, pages 191-202, XP002224875 abstract ---	1-53
A	MACPHERSON M S ET AL: "DOSE DISTRIBUTIONS AND DOSE RATE CONSTANTS FOR NEW YTTERBIUM-169 BRACHYTHERAPY SEEDS" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 22, no. 1, 1995, pages 89-96, XP000505147 ISSN: 0094-2405 abstract ---	
A	CHENG ET AL: "Neutron-activatable glass seeds for brachytherapy" JOURNAL OF NUCLEAR MEDICINE, SOCIETY OF NUCLEAR MEDICINE, NEW YORK, US, vol. 35, no. 5, 5 June 1994 (1994-06-05), page 242P XP002111090 ISSN: 0161-5505 abstract ---	

## INTERNATIONAL SEARCH REPORT

ational application No.  
PCT/GB 02/05927

### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 37-41, 52 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

**Continuation of Box I.2**

Present claims 1-53 relate to an extremely large number of possible products. In fact, the claims contain so many options or variables that a lack of clarity (and conciseness) within the meaning of Article 84 EPC arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely products have been searched recited in the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

In International Application No  
**PCT/GB 02/05927**

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 0134196	A 17-05-2001		DE 19953636 A1 DE 19953637 A1 WO 0134196 A2 EP 1227845 A2 US 2003012325 A1	23-05-2001 23-05-2001 17-05-2001 07-08-2002 16-01-2003
WO 0044682	A 03-08-2000		US 6221333 B1 AU 2864700 A CA 2361573 A1 EP 1149057 A1 JP 2002535237 T WO 0044682 A1 US 6379648 B1	24-04-2001 18-08-2000 03-08-2000 31-10-2001 22-10-2002 03-08-2000 30-04-2002
WO 0045826	A 10-08-2000		AU 2636400 A WO 0045826 A1	25-08-2000 10-08-2000
US 5443813	A 22-08-1995		US 5690903 A	25-11-1997